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Demine
Ukraine

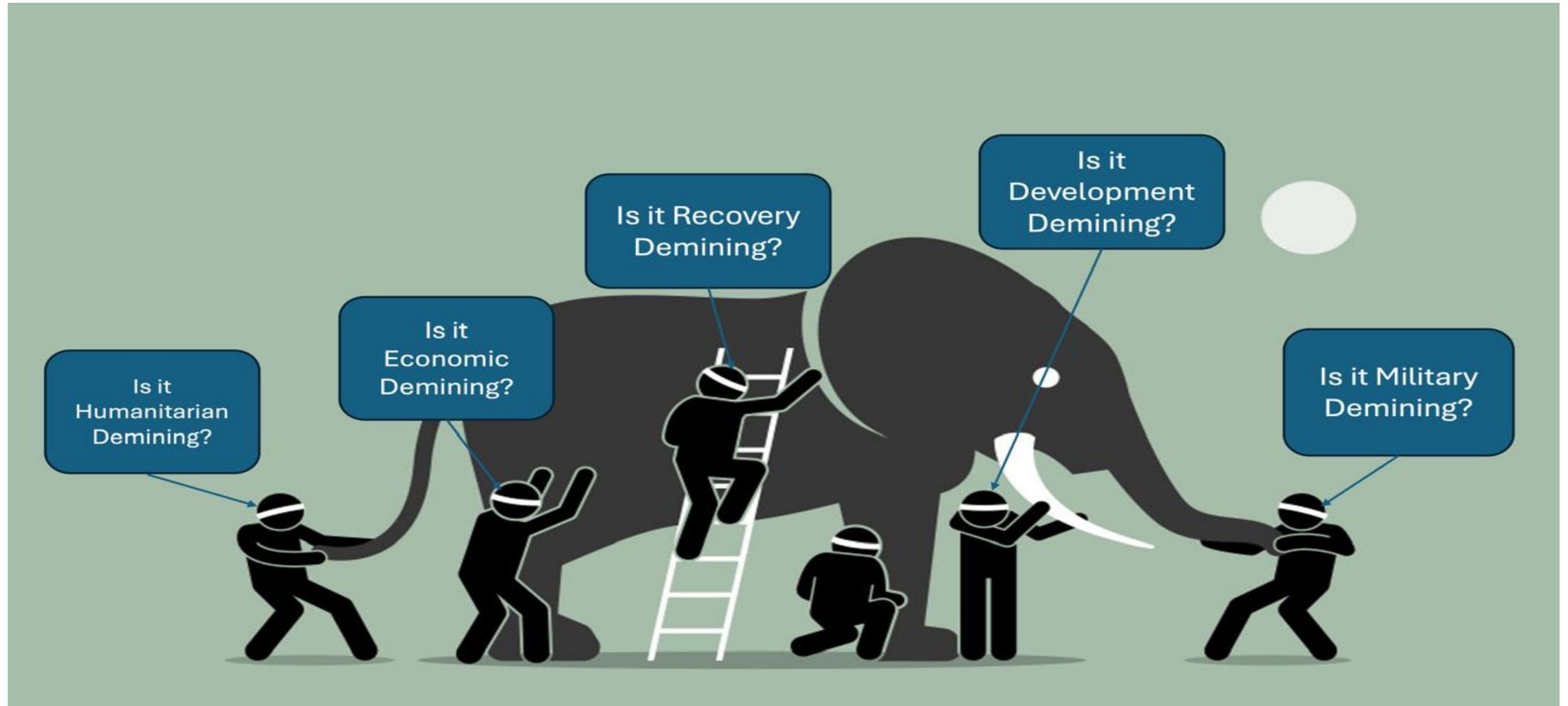
Mine Action in Ukraine



MASG New York
24th October 2024



What is Demining in Ukraine



In a TBI report released last month, it was estimated that Ukraine's annual GDP is \$11.2 billion lower as a result of landmines and ERW



Global food security

Annual agricultural and food exports from Ukraine are **\$4.3bn lower** as a result of landmines and ERW.

Between 2021-22 and 2024-25, Ukraine's wheat production fell by **41%**.

The fall in wheat production since 2021 could have fed **>40m people worldwide** per year.

Before the full-scale invasion, **more than 90% of exports** went to countries in the Global South.



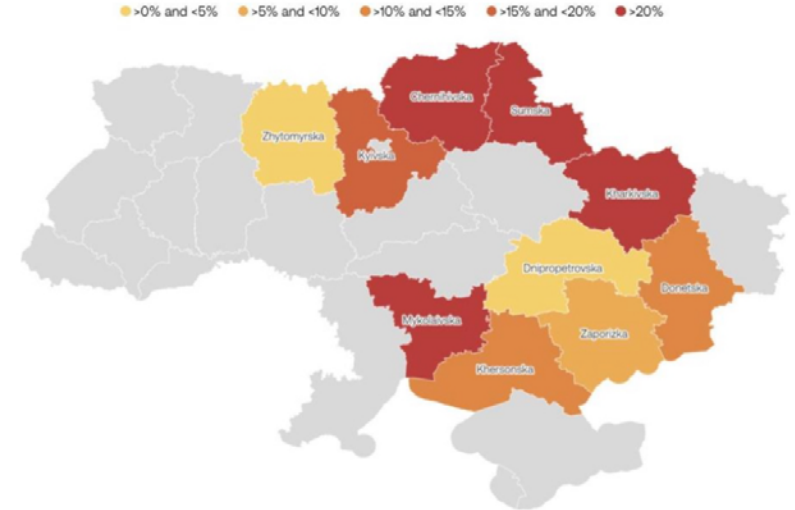
Economic impact

Landmines and ERW suppress Ukraine's GDP by **\$11.2bn each year**.

In the most affected regions – such as Kharkiv Oblast – regional GDP is suppressed by **more than 20%**.

Regional tax revenues are **\$1.1bn lower annually** due to landmines and ERW.

Overall, landmines and ERW reduce the **value of Ukrainian exports by \$8.9bn** each year.



The impact of landmines and ERW on GDP varies across Oblasts

Link to the full report:

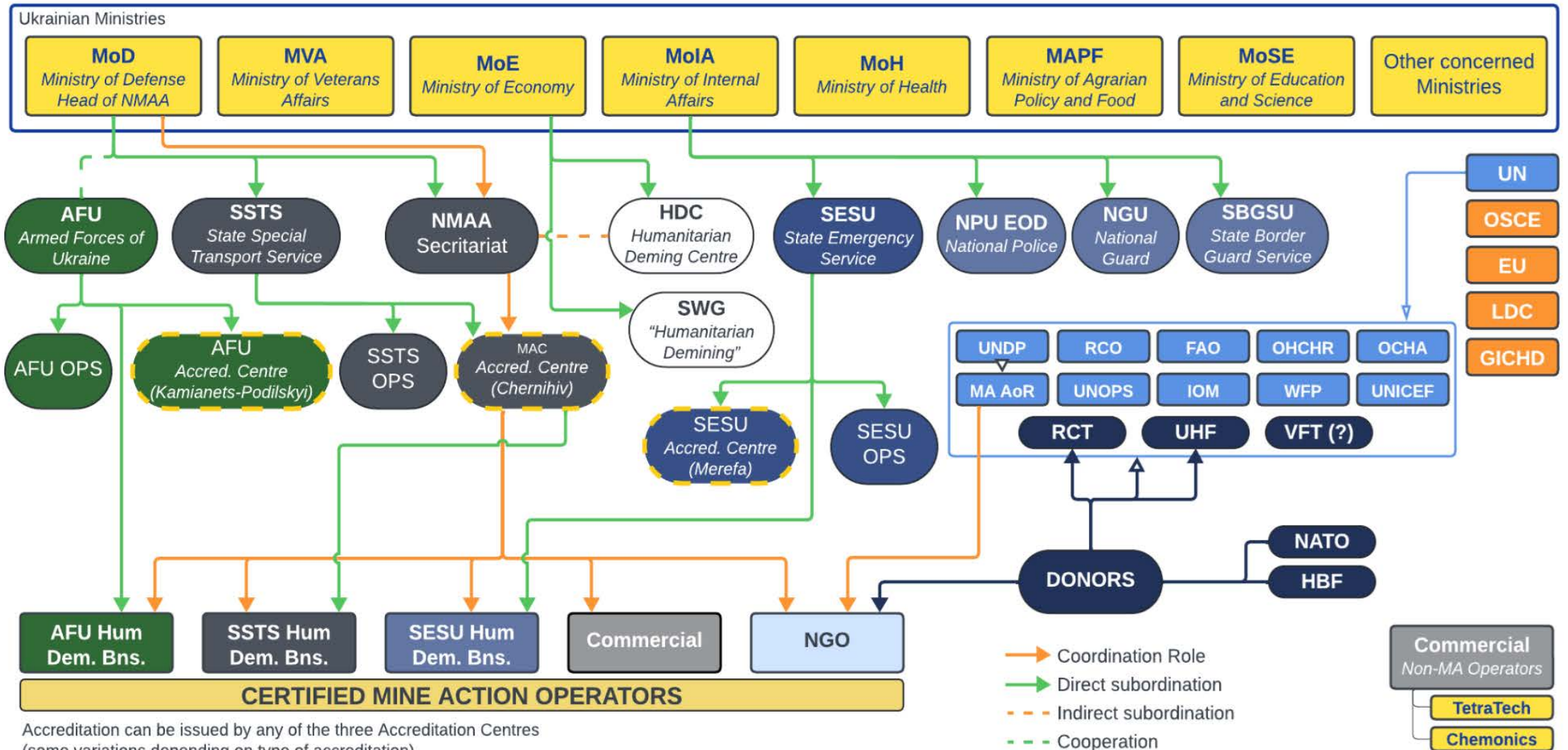


TONY BLAIR
INSTITUTE FOR
GLOBAL CHANGE

Types of munitions found in Ukraine



Mapping Mine Action Stakeholders in Ukraine



Coherence Initiatives

- SWG under Co-chair of DPM, RC and HE Ambassador Japan
- MASG – under chair of Italy
- UN – Inter agency coordination group for Mine Action (Now All UN Agencies meet regularly)
- Mine Action working group on support to Ukraine (UN, GICHD, EU, Tetrattech, Chemonics, OSCE, NATO, HBF, LDC, TBI)
- Informal Mine PM meeting
- AOR Mine Action under the protection cluster

Key challenges



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Ukraine has two mine action problems **not** one:

The actual contamination from the detritus of war: Mine, UXO and other explosive contamination – probably the worst seen in Europe since the end of the second world war ! This will require extensive clearance operations conducted to international/Ukrainian standards.

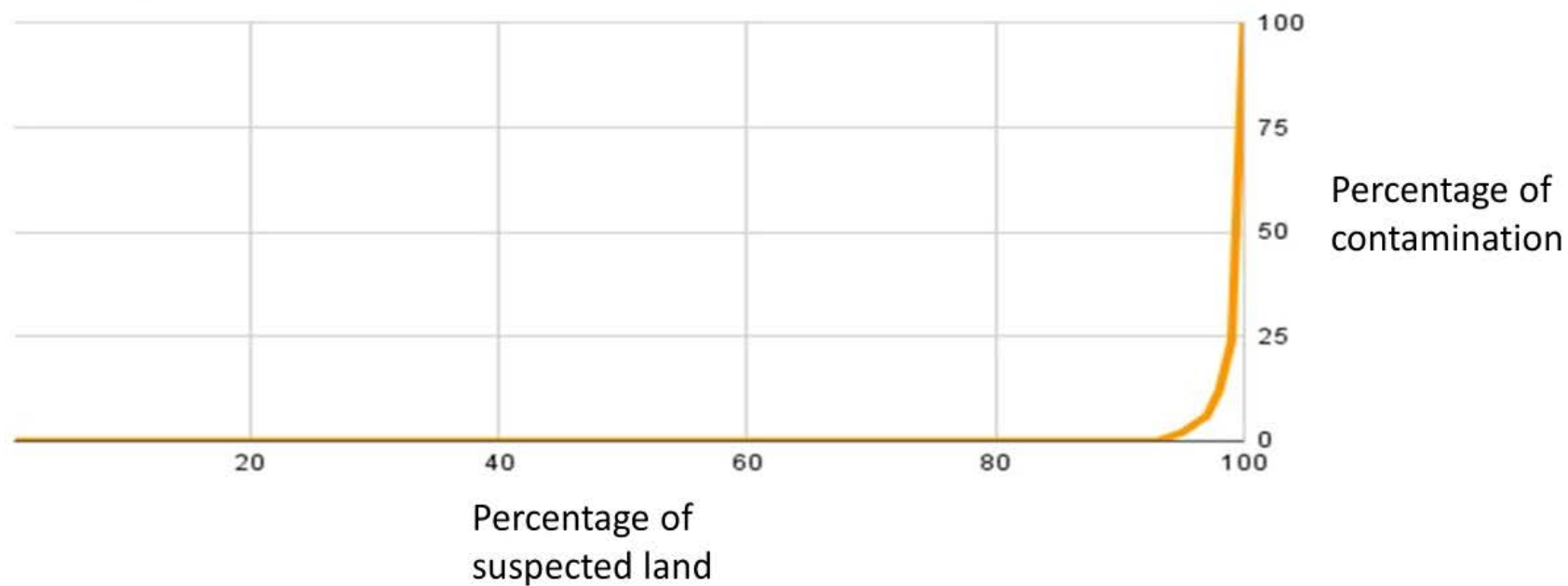
The areas of land that areas suspected of being contaminated (primarily as a result of being occupied by Russian forces) that actually has no contamination and there is no evidence of contamination, but the perception is that it might be dangerous. This will require Innovative solutions and adoption of a risk management approach to mine action in Ukraine until land is confirmed as being contaminated or no evidence of mines is accepted.



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Density of Contamination





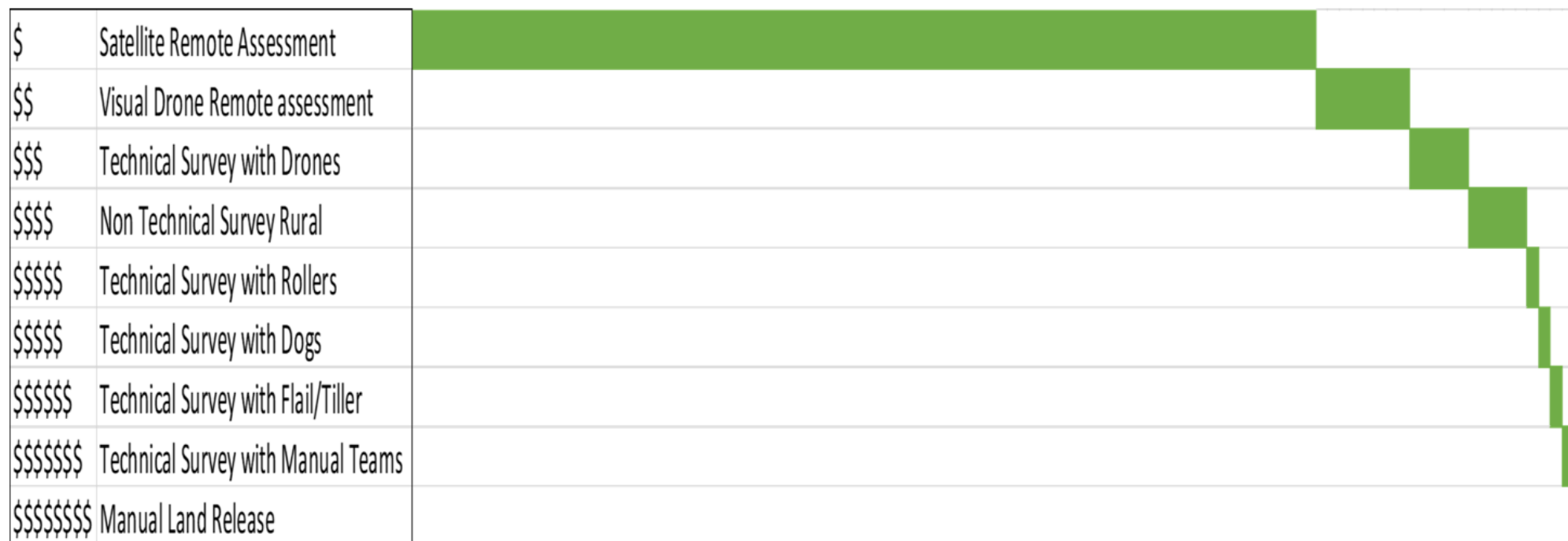
Two approaches Required:

The Need for Outcome driven high impact demining NOT Output focused demining.

Why is the task a priority, what will be the positive outcomes achieved or negative outcomes avoided by undertaking this task at this time! How does clearing this task help Ukraine.

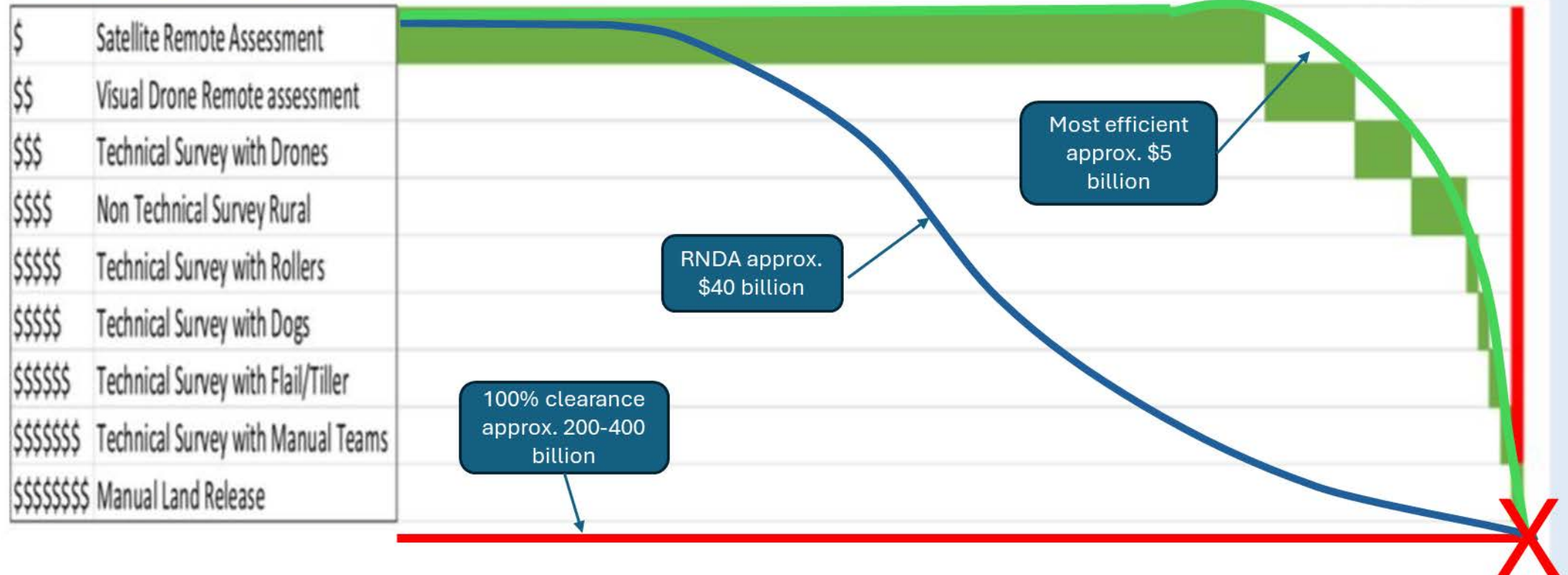
Adoption of a risk management approach not everything can be done immediately with no current or residual risk.

There are still incidents involving UXO in western Europe from WWI and II





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On 24 February 2022, the russian federation launched a full-scale invasion into Ukraine using all types of weapons, which led to massive contamination of the territory of Ukraine with mines and explosive remnants of war

Попередня оцінка територій, що потребують нетехнічного обстеження *
Estimated Areas for Non-technical Survey **

Ця карта створена виключно для використання з гуманітарними цілями. Для роботи на полі бою, підтвердження суб'єктивних даних, а також для планування операцій з розмінування необхідно використовувати спеціальні методи та обладнання.

This map is created for humanitarian use only for the future planning of EOD activities. **This map does not portray the contaminated areas, but the areas which require further investigations using the mine action methodologies.

Шільність інцидентів, пов'язаних із потенційними забрудненнями БМН | Estimated Mine Action related incidents density

Території, які потребують негайного обстеження | Areas affected by military invasion

Території, які потребують подальшого обстеження | Areas requiring further investigation

Території, звідки виключено підозру на забруднення | Areas cleared from suspicion

Map update: March 19th, 2024

As of 01.01.2024

The area of the **territory which requires to be surveyed** for explosive ordnance risks **has been reduced to 156 000 square km.**

(18,000 sq. km were marked as “clear from suspicion” in 2023 according to survey results)

659
incidents with civilians

666
wounded casualty

297
fatal casualty

73%
mine incidents

More than **50% of incidents** among the civilian population occurred in **Khersonska, Kharkivska and Mykolaivska** oblasts.

15% of population lives in EO risks conditions

[illegible]

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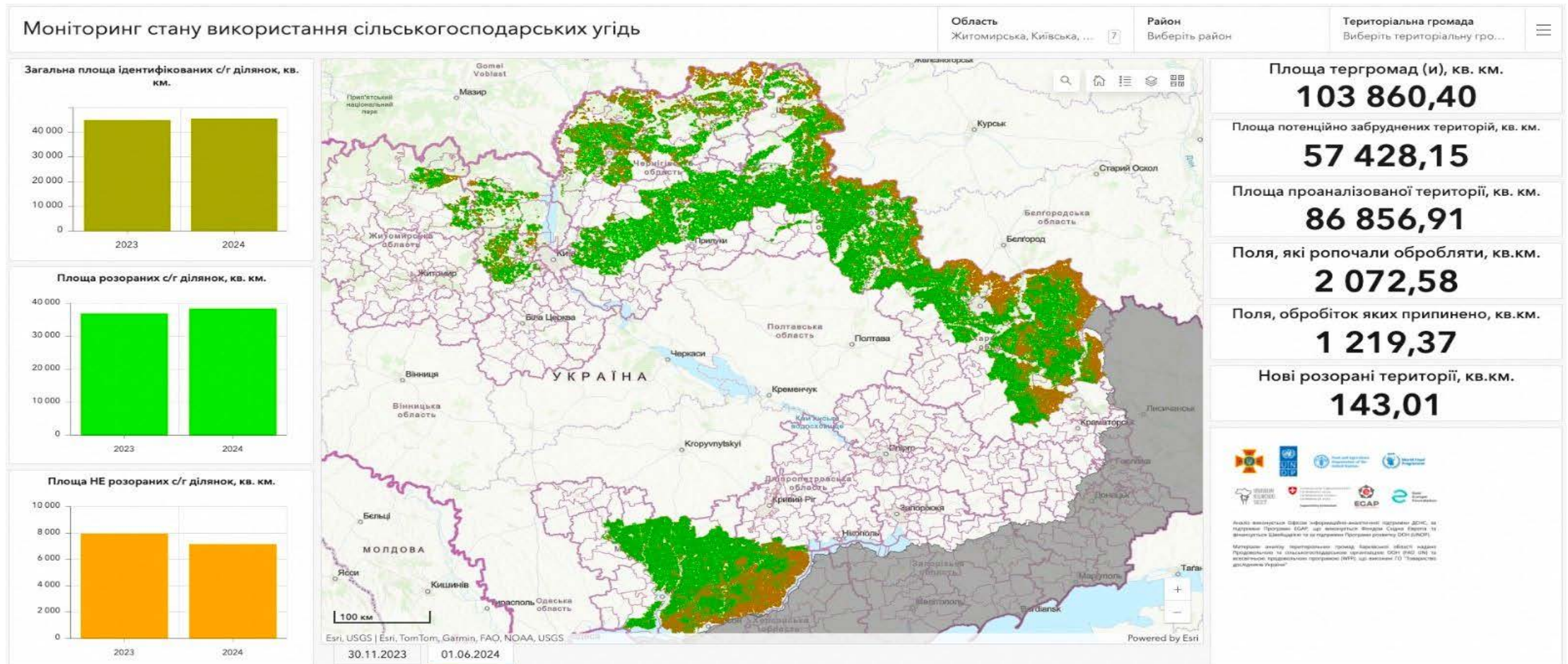
A map of Ukraine and surrounding regions, showing the locations of 1000+ massacres during the Holocaust. The map is overlaid with a grid. Red dots, representing the locations of massacres, are densely clustered in the western and central parts of Ukraine, particularly around Kyiv and Lviv, and along the Dniester River. The map also shows major cities and neighboring countries: Poland to the west, Romania to the south, and Moldova to the southwest. Other countries visible include Belarus, Lithuania, and Slovakia. Major cities labeled include Brest, Lublin, Lviv, Ternopil, Vinnytsia, Kyiv, Poltava, Kropyvnytskyi, Zaporizhzhia, Odessa, and Bucharest. The Dniester River is clearly marked, flowing from the north to the south. The map is titled 'Ukraine' in the center.

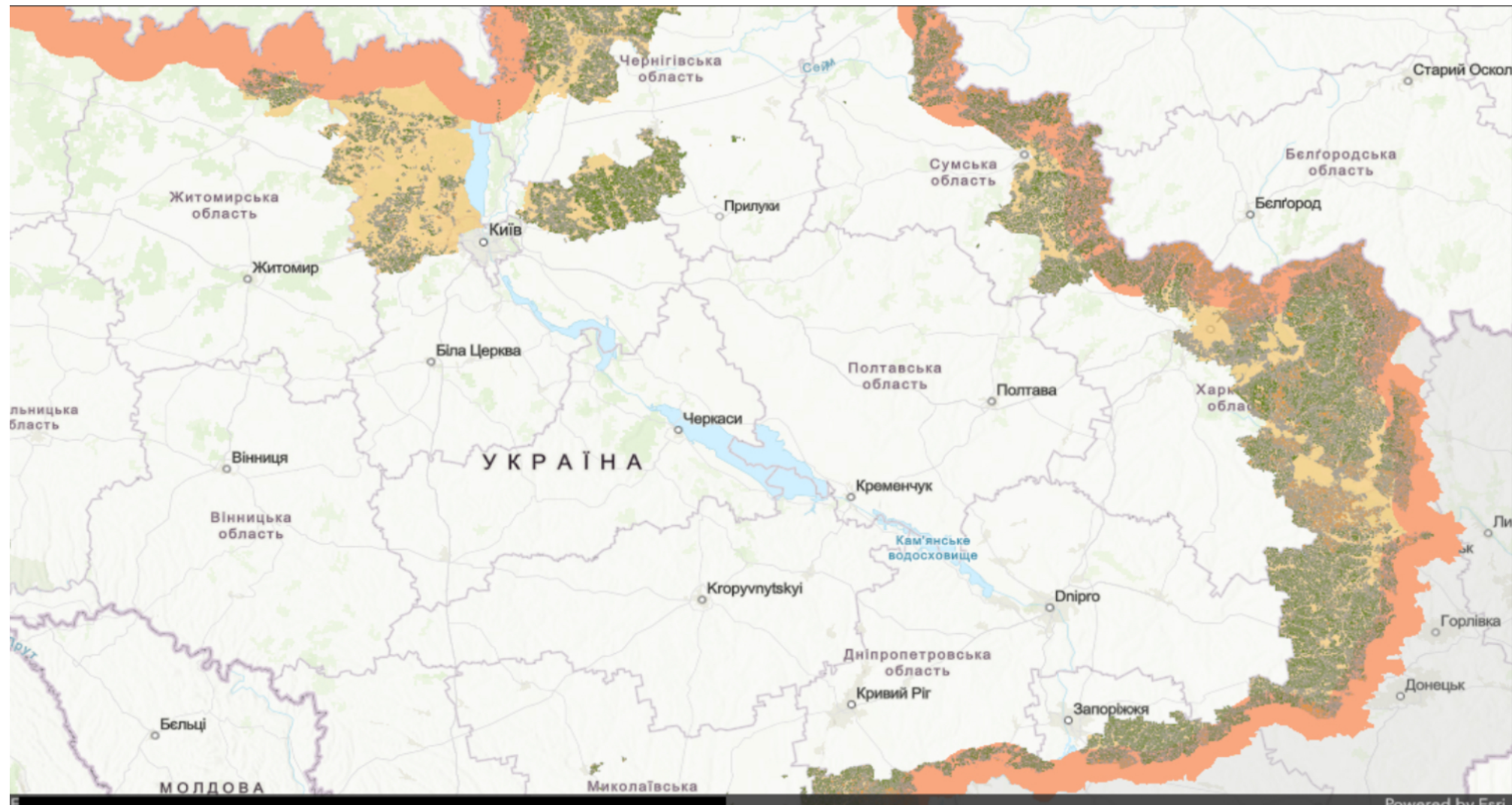
More than **50% of incidents** among the civilian population occurred in **Khersonska, Kharkivska** and **Mykolaivska** oblasts.

 **15% of population lives in EO risks conditions**



Current Threat map Sept 2024





Innovative approaches



Innovative Financing

Energy or agricultural bonds, to support farmers paying for the clearance of their lands.

Restore and repurpose farmlands

- Mitigate the risk of soil contamination of explosive.
 - *Non-usage of explosive*
 - *Reduction of contamination*
 - *Non-food crops*
- Use the land for other source of revenues: solar panels, wind turbines.

Instead of WFP provide food from 150k farmers, WFP will be able to buy off food from 150k farmers



Analytics

Land plots and territories

Land plots and territories



Territories affected by hostilities

**139 060
KM2**



Returned to the users

**34 940
km2**

Safe

34 940 km2



26,3 km2
Through clearance



30 376 km
of roads cleared



4 914 km2
Through Rapid Response



61 341 km
of power lines cleared



30 000 km2
Through Non-Technical Survey

Two extremes of the Problem





FSD

Ridne 17



1:2.500

0 50 100 200 Meters

Legend

- SP_TP
- EO_found
- Safe Lanes
- Cleared
- Instrument Assisted Visual Search
- Perimeter

The other end of the scale



What is the actual problem?

- Are we doing the right thing in the wrong place
- Are we doing the wrong thing in the right place
- The wrong thing in the right way
- The wrong way but the right thing

or

- The wrong thing in the wrong way in the wrong place

but

- We should be doing the right thing in the right place in the right way?

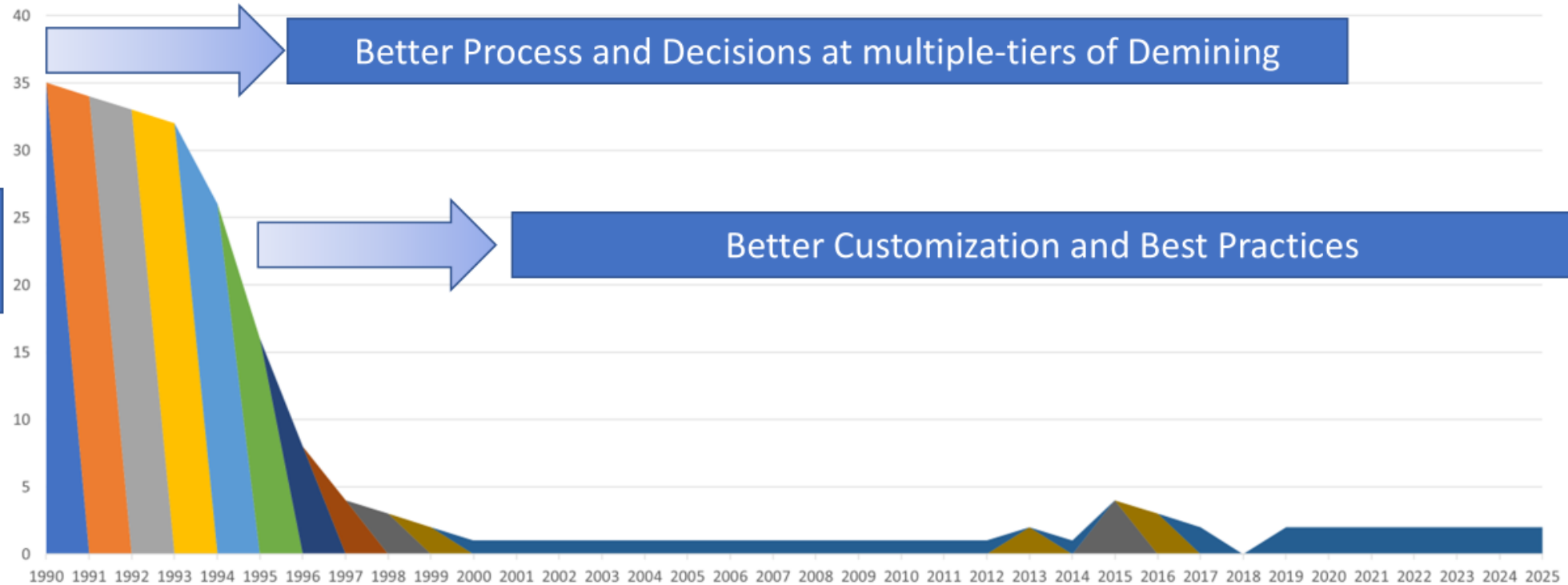
Risk Management is needed:

- Define the Risk
- Ideally remove the risk
- If not possible reduce the risk
- If still not possible mitigate the risk
- Accept the risk and plan for consequences

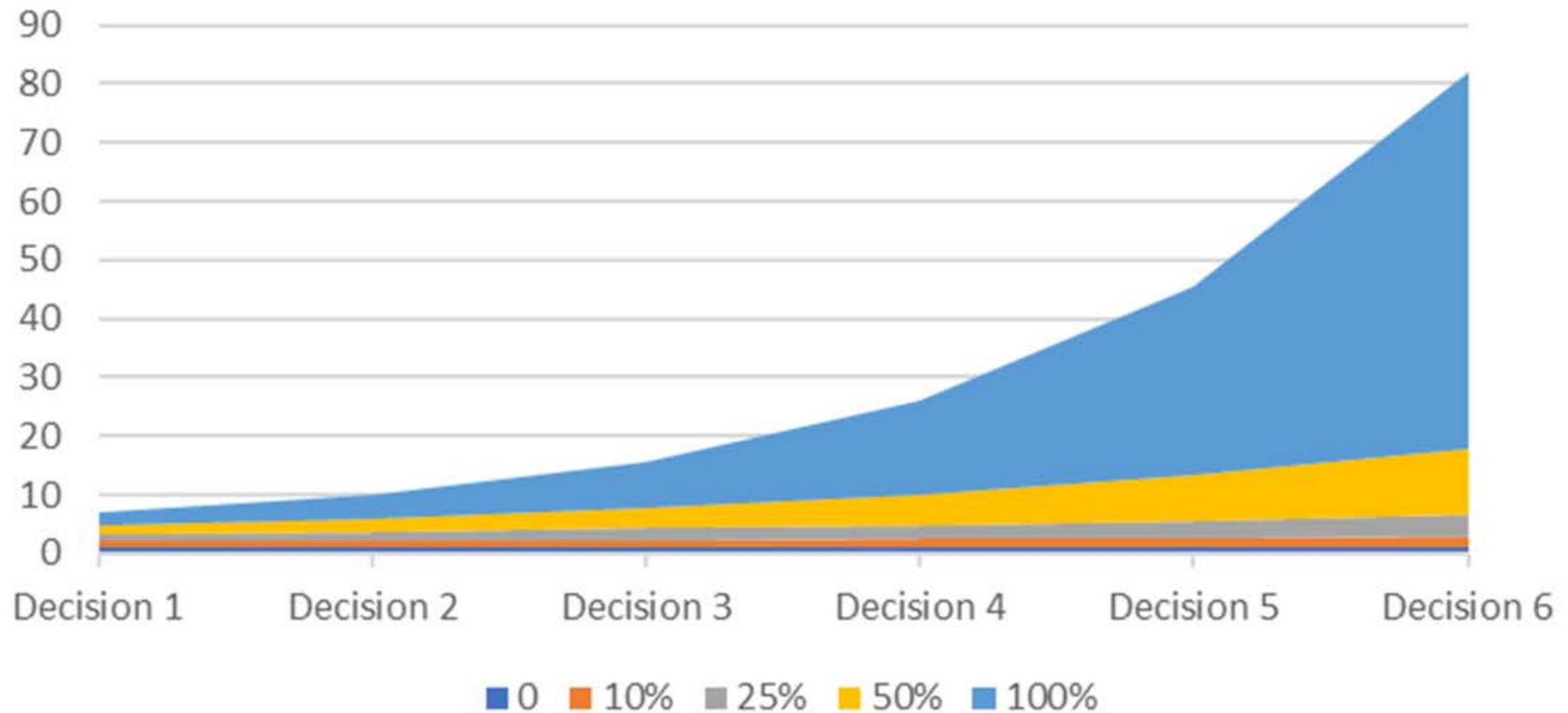
Cumulative Power of Continuous Improvement

Each layer of improvement results in Compounded Impact on Cost

Historical Cost/sq meter for Mine Clearance: 1990 - present



Cumulative deterioration with cascaded poor decisions
Each layer does not Add, but Multiplies the inefficiency



What has gone well in past 12 months:

- Government Ownership
- SWG
- National Strategy adopted
- Huge Resources provided by donors
- Increased national capacities of SESU, SSTS, Police EOD
- More coherence in the sector
- Adoption of “no evidence of mines” leading to 30,000+ sq km no longer being suspected
- Adoption of new technologies
- “built in Ukraine” imitative
- Close to achieving data integration
- Increased use of NTS
- Dog for land release and machines being accredited
- National budget allocated for mine action
- Compensation schemes being explored
- Exploring innovative financing options
- Development of Concept notes to fill capacity gaps – funding is still required!

Where there are still challenges

- National standards still need to be updated and adopted
- Lack of scale of capacity to meet the needs of the sector, particularly for QM, QC and tasking
- NMAC need more support
- Backlog of requests with NMAC
- Data still not fully integrated
- More support for regional MACC needed
- Lack of transparency over allocation of donated equipment
- Lack of logistics capacity to support equipment donations and keep them operational
- Terminology and differences between operational demining and demining to international standards. And a understanding of military demining, non military demining, economic demining, humanitarian demining, recovery demining and development demining

How can the UN assist Ukraine in Mine Action:

- Supporting implementation of National Strategy
- Support cohesion across the sector
- Revision of National Standards
- Development and Provision of Technical expertise particularly on Skills and Equipment needed
- Development of Train the Trainer training packages
- Development of Risk management approach with regard to the management and mitigation of explosive hazards
- Support effective Quality Management Processes
- Improve quality and relevance of requests for support – context driven concept notes
- Improved Information management and data integration for allocation of resources, prioritization and measurement of impact.
- Reduce bureaucracy and identify conflicting legislation
- Make recommendations to increase efficiency across the sector
- Support logistics for mine action capacity in country
- Support the creation of mine action service market place
- Support the development of innovative finance mechanisms

Coherence/Prioritization/Improved Efficiencies/Resource Management

5 Outcomes:



The One UN approach in mine action in Ukraine pursues five outcomes intended to capture the different strategic and long-term aims of the sector and strive for increased peace and human security, and support towards development in Ukraine - the common vision drawn from mine action global sector-wide Theory of Change (ToC).

1. Ukraine's mine action strategy implemented & supported, where possible relevant treaty obligations met.
2. Increased community resilience to conflict drivers, contributes to stability and peacebuilding.
3. Economic development and more resilient communities contribute to Sustainable Development Goals (SDGs).
4. Safer communities and reduced deaths and injuries from mines and explosive remnants of war (ERW).
5. Increase Efficiency across the sector too reduce the amount of national debt incurred to solve this problem

Recommendations:



- 1) We need to look at investing in human capital, logistics, prioritization, tasking and QA/QM to improve efficiency and effectiveness
- 2) We need to revising standards and aligning them with IMAS, and creating SOP for complicated tasks that incorporate risk management developing proper QA/QM, clear and appropriate task dossiers, linked to prioritization & outcomes etc
- 3) The donors/organizations/entities must meet to agree what we want to see from the government on this. Then we need to go to the MoE, MOD and MOI as a unified sector agree what is needed and what support will be given to Ukraine over the next 5 years. No more shopping lists. Going forward requests are in a concept note format outlining: need:, resources available, resource shortfall, consequences of this shortfall, prioritized request, expected outcomes.
- 4) Everything is in line with national strategy
National standards bench marked and amended to IMAS, adopted and followed
Strive for minimal duplication across the sector
There is integrated data.
Transparency over equipment donations and use
Logistics and support processes in place and accepted as needed
Prioritization of tasks taking into account: impact, outcome, risk and funding source requirements
Active task management and support via a proper. QM/QA feedback loop
Field driven innovations and acceptance of appropriate risk
Rapid issuance of completion certificate's and compensation payments (if due).
- 5) Map process of logistical support, appropriate outcome drive risk based tasking needs to be developed with proper QA/QM (not just sampling) and delegated decision making to a lower level (Oblast or further) on cancelation is needed.



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